Docket No. 05165.1200 Customer No.: 30734

Application No.: 10/603,817

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently Amended) A system comprising: calibrator for calibrating

a tool evaluator, the tool evaluator being configured to evaluate a hand-operable tool, the tool having a first handle movable relative to a second handle, the tool evaluator having an actuator and a first sensor, the first sensor being operable to sense a force resulting from modulation of the actuator and transmit a first signal associated with the sensed force, the tool ealibrator evaluator comprising:

a second sensor operable to sense the force and transmit a second signal associated with the sensed force, the second sensor having a first end and a second end;

a first rest attached to the actuator, the first rest being configured to providing a surface to bear against the first end of the second sensor and the first rest providing a surface to bear against the first handle;

a second rest in cooperative alignment with the first rest, the second rest being configured to providing a surface to bear against the second end of the second sensor and the second rest providing a surface to bear against the second handle; and

a controller configured to control the tool evaluator; and a calibrator comprising:

a second sensor configured to sense the force and transmit a second signal associated with the sensed force, the second sensor having a first end and a second end, wherein the first end is configured to bear against the first rest, the second end is configured to bear against the second rest, and the second sensor is operably connected to the controller, the controller being configured to modulate the actuator and receive the first signal and the second signal, wherein the controller is configured to calibrate the first sensor in response to the first signal and the second signal.

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(Original) The calibrator according to claim 1, wherein the controller is configured to 2.

modulate the actuator to exert a plurality of different loads upon the first sensor and the second

sensor.

3. (Original) The calibrator according to claim 2, further comprising a proportional air valve

configured to supply pressurized air to the actuator, wherein the pressure of the air is regulated in

response to modulations by the controller.

4. (Original) The calibrator according to claim 2, wherein the first sensor is configured to

sense the plurality of different loads and transmit a first set of signals to the controller and the

second sensor is configured to sense the plurality of different loads and transmit a second set of

signals to the controller.

The calibrator according to claim 4, wherein the controller is further 5.

configured to correlate each load of the plurality of different loads to a respective signal of the

first set of signals and the second set of signals and the controller being further configured to

determine a response profile of the first sensor to the plurality of different loads in response to the

correlation.

The calibrator according to claim 5, wherein the controller is further 6.

configured to determine whether the response profile is within a predetermined range of values.

7. (Currently Amended) A tool evaluation calibration system comprising:

a tool evaluator for evaluating a hand-operable tool in response to movement of a first

handle member of the hand-operable tool relative to a second handle member of the hand-

operable tool, the tool evaluator evaluation calibration system-comprising:

an actuator to move the first handle member relative to the second handle member;

a first rest attached to the actuator to provide a first surface to bear against the first

handle member of the hand-operable tool;

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a second rest to provide a second surface to bear against the second handle

member of the hand-operable tool;

an actuator attached to the first rest and configured to apply a force to the member

via the first rest;

a first controller operably connected to the actuator and configured to modulate the

actuator; and

a first sensor configured to sense a resistance to the force and transmit a signal

associated with the sensed resistance to the controller, wherein the first controller is

configured to determine whether the sensed resistance is relatively greater than a

predetermined threshold value; and

a calibrator comprising:

a second sensor operable to sense force exerted by the actuator and transmit

signals associated with the sensed force, wherein the second sensor includes a first end

and a second end, the first end being configured to be borne upon by the first surface and

the second end being configured to be borne upon be the second surface first rest provides

a surface to bear against a first side of the second sensor and the second rest provides a

surface to bear against a second side of the second sensor; and

a second controller operably connected to the second sensor and the tool evaluator,

the second controller configured to modulate the actuator and receive signals from the

second sensor and the first sensor, wherein the second controller is configured to calibrate

the first sensor in response to the signals received from the second sensor and the first

sensor.

8. (Original) The system according to claim 7, wherein the first controller is configured to

display a recalibration warning following a predetermined recalibration increment.

9. (Original) The system according to claim 7, further comprising a proportional air valve

configured to supply pressurized air to the actuator, wherein the pressure of the air is regulated in

response to modulations of the proportional air valve.

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10. (Original) The system according to claim 7, wherein the first controller and the second

controller comprise a system controller configured to control the tool evaluation calibration

system.

11. (Original) The system according to claim 7, wherein the second controller is further

configured to correlate each load of a plurality of different loads exerted by the actuator to

respective signals from the first sensor and the second sensor and the second controller being

further configured to determine a response profile of the first sensor to the plurality of different

loads.

12. (Original) The system according to claim 11, further comprising a memory, wherein the

response profile of the first sensor is stored to the memory in response to the second controller

determining the response profile is within a predetermined range of values.

13. (Currently Amended) An apparatus for calibrating a tool evaluator configured to evaluate

a hand-operable tool in response to a first handle of the hand-operable tool being moved relative

to a second handle of the hand-operable tool and the tool evaluator having a first sensor, the first

sensor being operable to sense a force and transmit a first signal associated with the sensed force,

the apparatus comprising:

means for disposing a second sensor within the tool evaluator, the second sensor being

operable to sense the force and transmit a second signal associated with the sensed force;

means for bearing, the means for bearing being configured to bear against the second

sensor to calibrate the tool evaluator and the means for bearing being configured to bear against

the first and second handles of the hand-operable tool to evaluate the hand-operable tool;

means for controlling the tool evaluator to apply the force to the second sensor; and

means for determining a calibration factor in response to the first signal and the second

signal.

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14. (Original) The apparatus according to claim 13, further comprising means for controlling

the tool evaluator to apply a plurality of different forces to the first sensor and the second sensor,

wherein the first sensor is configured to sense the plurality of different forces and transmit a first

set of signals associated with the plurality of different forces, the second sensor being configured

to sense the plurality of different forces and transmit a second set of signals associated with the

plurality of different forces.

15. (Original) The apparatus according to claim 14, further comprising means for

determining a response profile of the first sensor in response to the first set of signals and the

second set of signals.

The apparatus according the claim 15, further comprising means for 16. (Original)

determining if the response profile is within a predetermined range of values.

17. (Original) The apparatus according to claim 13, further comprising means for storing the

calibration factor to a table.

18. (Original) The apparatus according to claim 17, further comprising means for sensing an

identity of the second sensor.

19. The apparatus according to claim 17, further comprising means for (Original)

extrapolating a performance trend of the tool evaluator in response to the table.

20. (Currently Amended) A method of calibrating a tool evaluator, the tool evaluator being

configured to evaluate a hand-operable tool in response to a first handle of the hand-operable tool

being moved relative to a second handle of the hand-operable tool and the tool evaluator having a

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first sensor, the first sensor being operable to sense a force and transmit a first signal associated

with the sensed force, the method comprising:

disposing a second sensor between a pair of rests of the tool evaluator, the pair of rests

providing respective surfaces to bear against the second sensor to facilitate calibrating the tool

evaluator and the pair of rests providing respective surfaces being configured to bear against the

first handle and the second handle of the hand-operable tool to facilitate evaluating the hand-

operable tool, the second sensor being operable to sense the force and transmit a second signal

associated with the sensed force;

controlling the tool evaluator to apply the force to the second sensor; and

determining a calibration factor in response to the first signal and the second signal.

21. (Original) The method according to claim 20, further comprising controlling the tool

evaluator to apply a plurality of different forces to the first sensor and the second sensor, wherein

the first sensor is configured to sense the plurality of different forces and transmit a first set of

signals associated with the plurality of different forces, the second sensor being configured to

sense the plurality of different forces and transmit a second set of signals associated with the

plurality of different forces.

22. (Original) The method according to claim 21, further comprising determining a response

profile of the first sensor in response to the first set of signals and the second set of signals.

23. (Original) The method according the claim 22, further comprising determining if the

response profile is within a predetermined range of values.

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24. (Original) The method according to claim 23, wherein in response to the response profile

being within the predetermined range of values, the calibration factor is determined to be the

slope and y-intercept of the response profile.

25. (Original) The method according to claim 20, further comprising storing the calibration

factor to a table.

26. (Original) The method according to claim 25, further comprising sensing an identity of

the second sensor.

27. (Original) The method according to claim 25, further comprising extrapolating a

performance trend of the tool evaluator in response to the table.